

prising a buoyant drum, and a buoyant pneumatic rubber tire carried on the drum, the combined buoyancy of the tires being sufficient to support the vehicle with the frame well above the water and the wheels submerged to a depth not substantially exceeding one-half their radii when the four wheels are in the water, and the said drums having sufficient buoyancy so that the combined buoyancies of the drums and tires on a pair of wheels will prevent the end of the vehicle adjacent said pair of wheels from sinking into the water beyond the desired depth when the wheels on the other end of the vehicle are out of water.

6. In an amphibian vehicle adapted to traverse the soft mud and water of marshes and to force its way through rank vegetation thereof, the combination of a frame, a pair of buoyant wheels mounted near the rear end of the frame, a pair of buoyant wheels flexibly mounted near the front end of the frame so that the axis joining their centers is capable of twisting in a vertical plane with respect to the axis joining the centers of the rear wheels, an internal combustion engine mounted on the frame, a transmission so constructed and arranged as to transmit power from said engine to at least two of the

wheels, and means for steering at least two of the wheels; said wheels being of sufficient diameter and buoyancy to support the vehicle, while only submerging in water to a depth less than their radius with the vehicle frame well above the water line, and said engine and transmission being of sufficient capacity to propel the vehicle through soft mud and rank vegetation.

7. A vehicle for traversing marshes, dry land and open water, comprising a frame, a pair of buoyant wheels mounted near the rear end of the frame, and a pair of buoyant wheels flexibly mounted near the front end of the frame, the wheels being arranged substantially symmetrically with respect to the center of gravity of the vehicle, means for steering at least one wheel on each side of the frame so as to guide the vehicle, an engine, means operatively connected therewith for applying power to all of said wheels to propel the vehicle, and manually controlled means for adjusting the power delivered to the wheels on either side of said vehicle, whereby turning the vehicle in water is facilitated.

ABBOT A. LANE.
EUGENE W. JACOBSON.